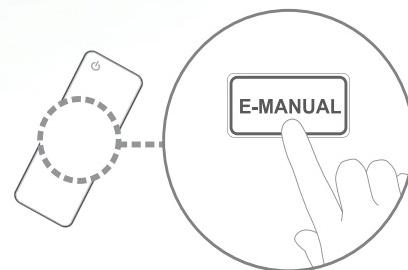


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Model _____ Serial No. _____

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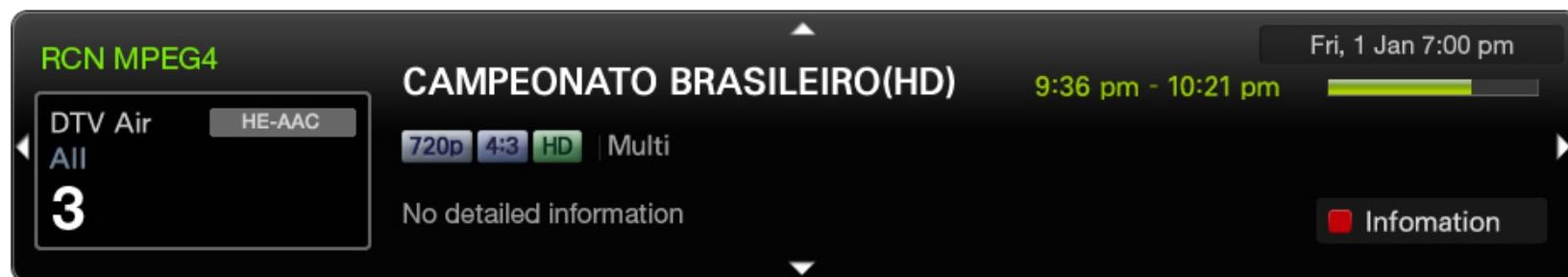
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□ Using the INFO button (Now & Next guide)

The display identifies the current channel and the status of certain audio-video settings.

The Now & Next guide shows daily TV programme information for each channel according to the broadcasting time.

- Scroll **◀**, **▶** to view information for a desired programme while watching the current channel.
- Scroll **▲**, **▼** to view information for other channels. If you want to move to the currently selected channel, press the **ENTER** **⇨** button.



* It may differ depending on the model.

□ Using Channel menu (Watch TV)

MENU  → **Support** → **Contents Home** → **ENTER** 

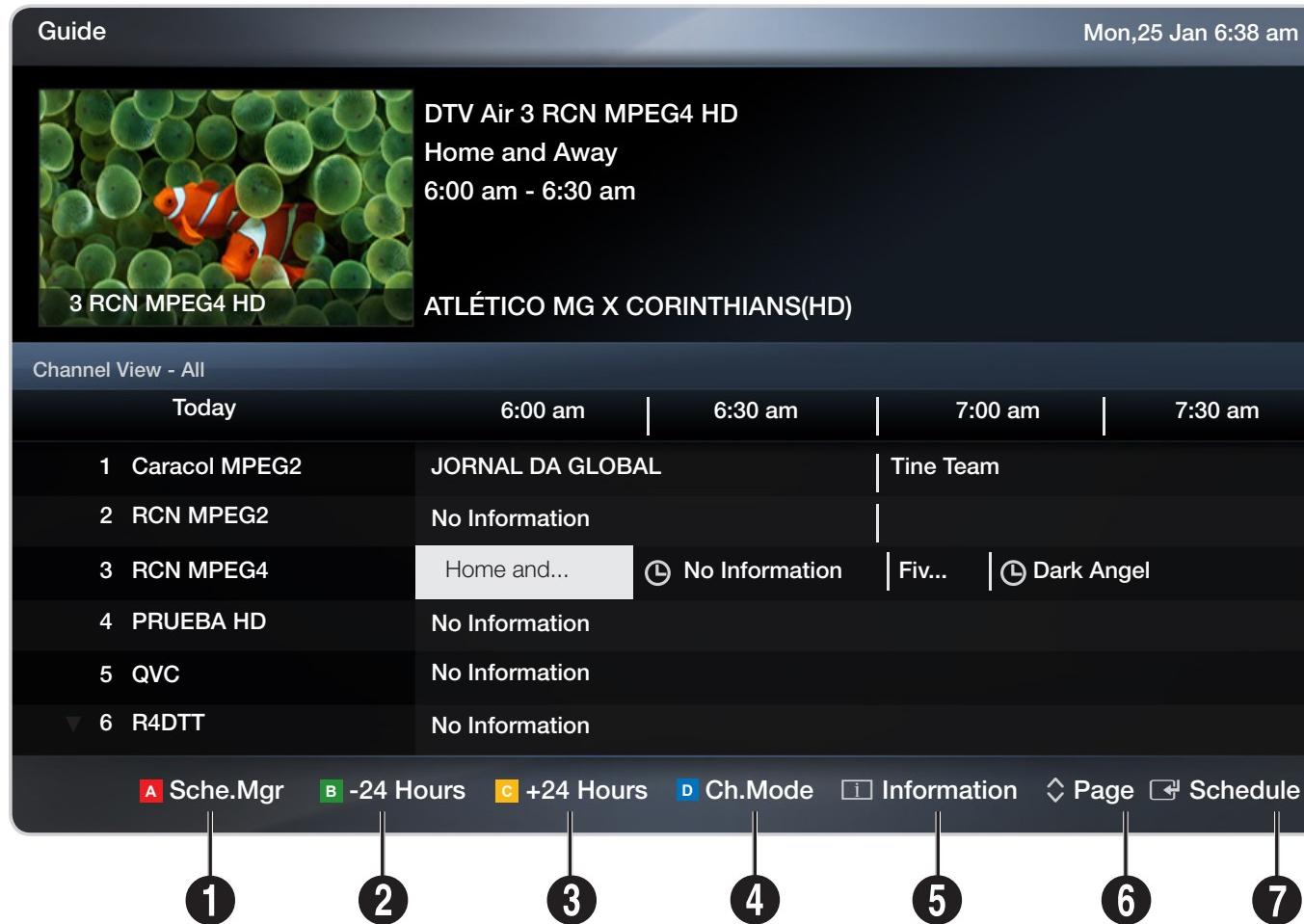
Press the **CONTENT** button to select **Watch TV**, then select the desired menu. Each screen will be displayed.

■ Guide

The EPG (Electronic Programme Guide) information is provided by broadcasters. Using programme schedules provided by broadcasters, you can specify programmes you want to watch in advance so that the channel automatically changes to the selected programme channel at the specified time. Programme entries may appear blank or out of date depending on a channel status.



Using Guide



* It may differ depending on the model.

- 1 A Red (**Sche.Mgr**): Moves to the **Schedule List** in **Schedule Manager**.
 - 2 B Green (-24 Hours): Viewing the list of programmes to be broadcasted before 24 hours.
 - 3 C Yellow (+24 Hours): Viewing the list of programmes to be broadcasted after 24 hours.
 - 4 D Blue (**CH. Mode**): Select the type of channels you want to display on the Channel List window.(**All, TV, Radio, Data/Other, Favourites 1-5**)
- ◀ ▶
- 5 ⓘ (**Information**): Displays details of the selected programme and let you make a manual booking.
 - 6 ⇧ (**Page**): Move to previous or next page.
 - 7 ➔ (**Watch / Schedule**)
 - When selecting the current programme, you can watch the selected programme.
 - When selecting the future programme, you can reserve to watch the selected programme. To cancel the schedule, press the **ENTER ➔** button again and select **Cancel Schedules**.

Schedule Manager

Cancel or set the **Timer Viewing** to display the channel you want at the intended time.

Using Timer Viewing

You can set a desired channel to be displayed automatically at the intended time.
Set the current time first to use this function.

1. Press the **ENTER** button to add programme to schedule manually.
2. Press the **</>/▲/▼** button to set the **Antenna, Channel, Repeat, Date, Start Time**.
 - **Antenna**: Select the desired broadcasting signal.
 - **Channel**: Select the desired channel.

- **Repeat:** Select **Once**, **Manual**, **Sat~Sun**, **Mon~Fri** or **Everyday** to set at your convenience. If you select **Manual**, you can set the day you want.
 -  The (✓) mark indicates the day you've selected.
 - **Date:** You can set desired date.
 -  It is available when you select **Once** in **Repeat**.
 - **Start Time:** You can set start time you want.
-  If you want to edit or cancel the schedule, select the reserved schedule on the **Schedule List**, and select the **Edit** or **Cancel Schedules**.



■ Channel List

You can view channel information **All**, **TV**, **Radio**, **Data/Other**, **Analogue** or **Favourites 1-5**.

-  When you press the **CH LIST** button on the remote control, **Channel List** screen will be displayed at once.
- **All**: Shows all currently available channels.
- **TV**: Shows all currently available TV channels.
- **Radio**: Shows all currently radio channels.
- **Data/Other**: Shows all currently available MHP or other channels.
- **Analogue**: Shows all currently available analogue channels.
- **Favourites 1-5**: Shows all favourite channels.





Favourites 1-5 will be displayed when you set **Add to Favourites**.



If you want to view favourite channels you added, press the **CH LIST** button and use **↔ (Ch.Mode)** button to move **Favourites 1-5**.



Using the colour buttons with the **Channel List**.

- **A** Red (**Antenna**): Switches to **Air** or **Cable**.
- **c** Yellow (**Programme View / Channel View**): Displays the programme when digital channel is selected. Returns to the channel view.
- **↔ (Ch.Mode / Channel)**: Move to the **All, TV, Radio, Data/Other, Analogue** or **Favourites 1-5**.



When you press the **c** (**Programme View**) button, you can move to other channels using **↔ (Channel)** button.



-  ([Watch / Information](#)): Watches the channel you select. / Displays details of the selected programme.
-  ([Page](#)): Move to next or previous page.

Channel Status Display Icons

Icon	Operations
	An analogue channel.
	A reserved programme.
	A locked channel.



How to use Timer Viewing in Channel List (digital channels only)

When you set the **Timer Viewing** in **Channel List**, you can only set the programme in **Programme View**.

1. Press the **CH LIST** button, then select a desired digital channel.
2. Press the **c** (**Programme View**) button.
3. Press the **▲ / ▼** buttons to select the desired programme, then press the **ENTER**  (**Information**) or **INFO** button.
4. Select **Timer Viewing**, then press the **ENTER**  button when done.
 If you want to cancel **Timer Viewing**, follow steps 1 through 3. Select **Cancel Schedules**.

■ Channel Manager

You can edit the channel to your preference.

- () **Channels**: Shows the channel list according to the channel type.
- () **Favourites 1-5**: Shows favourite channels.

 Using the colour buttons with the **Channel Manager**.

- **A Red (Antenna)**: Switches to **Air** or **Cable**.
- **D Blue (Sorting)**: Changes the list ordered by Channel Number, Channel name.



Channel Status Display Icons

Icon	Operations
A	An analogue channel.
✓	A channel selected.
★	A channel set as a Favourites .
🔒	A locked channel.
🔧	Displays the Channel Manager option menu.

Channel Manager Option Menu

Set each channel using the **Channel Manager** menu options (**Watch, Add to Favourites/Edit Favourites, Lock/Unlock, Edit Channel Name/Edit Channel Number, Delete, Deselect All>Select All**). Option menu items may differ depending on the channel status.

1. Select a channel and press the **TOOLS** button.
2. Select a function and change its settings.
 - **Watch:** Watch the selected channel.
 - **Add to Favourites/Edit Favourites:** Set channels you watch frequently as Favourites.
 1. Select the **Add to Favourites/Edit Favourites**, then press the **ENTER ↴** button. Add or Delete the selected channel in **Favorites 1-5**.
 -  If the channel is already added to favourite channel, **Edit Favourites** will be shown.
 2. Press the **ENTER ↴** button to select **Favourites 1-5**, then press the **OK** button.
 -  One favourite channel can be added in several of Favourites among **Favourites 1-5**.

- **Lock/Unlock**: Lock a channel so that the channel cannot be selected and viewed.



NOTE

- This function is available only when the **Channel Lock** is set to **On**.
- The PIN input screen appears. Enter your 4-digit PIN, the default of which is “0-0-0-0”. Change the PIN using the **Change PIN** option.
- **Edit Channel Name** (analogue channels only): Assign your own channel name.
- **Edit Channel Number** (digital channels only): Edit the number by pressing the number buttons desired.



Some area may not be able to support **Edit Channel Name** and **Edit Channel Number** function.

- **Delete**: Delete a channel to display the channels you want.
- **Deselect All**: Deselect all the selected channels.
- You can only select **Deselect All** when one or more channels are selected.
- **Select All**: Select all the channels in the channel list.

□ Memorising channels

 MENU  → **Channel** → **ENTER** 

■ Antenna (Air / Cable)

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e. an **Air** or a **Cable** system).



■ Auto Tuning

Scans for a channel automatically and stores in the TV.

- ☞ Automatically allocated programme numbers may not correspond to actual or desired programme numbers. If a channel is locked, the PIN input window appears.
- ☞ If the antenna is connected to ANT 2 IN (CABLE), select **Cable** and if it is connected to ANT 1 IN (AIR), select **Air**.

When Antenna Source is set to Air or Cable:

◀ When selecting **Air**: Provide a value to scan for **Digital** and **Analogue** channels. ▶

When selecting **Cable**: Provide a value to scan for **Analogue** channels.

- Analogue Cable System: Select the **Analogue Cable System** among **STD**, **HRC** and **IRC** by pressing the **▲**, **▼**, **◀** or **▶** button, then press the **Search** button.

Digital Manual Tuning

Scans for a digital channel manually and stores in the TV. Press the **A (New)** button to search the digital channels by adjusting the **Channel** or **Frequency**.



If a channel is locked, the PIN input window appears.

- **Channel:** Set the channel number using the **▲**, **▼** or number (0~9) buttons.
- **Frequency:** Set the frequency using the number buttons.

Channel Add/Delete

(analogue channels only)

You can delete or add a channel to display the channels you want. This function is only available in the Tools menu.

□ Other Features

■ Fine Tune

(analog channels only)

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, fine tune the channel manually.

- Select **Fine Tune** in the **Channel** menu.

 Fine tuned channels that have been saved are marked with an asterisk "*" on the right-hand side of the channel number in the channel banner.

 To reset the fine-tuning, select **Reset**.

■ LNA (Off / On)

If the TV is operating in a weak-signal area, the LNA (Low Noise Amplifier) function can improve the reception (a low-noise preamplifier boosts the incoming signal).

□ Changing the Preset Picture Mode

 MENU  → **Picture** → **Picture Mode** → **ENTER** 

■ Picture Mode

Select your preferred picture type.

 When connecting a PC, you can only make changes to the **Entertain** and **Standard**.

- **Dynamic**: Suitable for a bright room.
- **Standard**: Suitable for a normal environment.
- **Movie**: Suitable for watching movies in a dark room.
- **Entertain**: Suitable for watching movies and games.

 It is only available when connecting a PC.

Adjusting Picture Settings

■ Backlight / Contrast / Brightness / Sharpness / Colour / Tint (G/R)

 MENU  → Picture → Backlight → ENTER 

Your television has several setting options for picture quality control.

NOTE

- When you make changes to **Backlight, Contrast, Brightness, Sharpness, Colour** or **Tint (G/R)**, the screen will be adjusted accordingly.
- When connecting a PC, you can only make changes to **Backlight, Contrast, Brightness** and **Sharpness**.
- Settings can be adjusted and stored for each external device connected to the TV.

■ Screen Adjustment

Set the various picture options such as picture size and aspect ratio.

- **Picture Size:** Your cable box/satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use 16:9 mode most of the time.

16:9: Sets the picture to 16:9 wide mode.

Wide Zoom: Magnifies the picture size more than 4:3.

 Adjusts the **Position** by using ▲, ▼ buttons in the **Position** screen.

Zoom: Magnifies the 16:9 wide pictures vertically to fit the screen size.

 Adjusts the position or size by using ▲, ▼ buttons in the **Zoom/Position** screen.

4:3: Sets the picture to basic (4:3) mode.

 Do not watch in 4:3 format for a long time. Traces of borders displayed on the left, right and centre of the screen may cause image retention (screen burn) which are not covered by the warranty.

Screen Fit: Displays the full image without any cut-off when HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are input.

- **Position:** Adjust the picture position. It is only available in **Screen Fit** or **Wide Zoom**.
- **Zoom/Position:** Adjust the picture position. It is only available in **Zoom**.



NOTE

- After selecting **Screen Fit** in HDMI (1080i/1080p) or Component (1080i/1080p) mode, you may need to centre the picture. Select **Position**, then follow the steps below in the **Position** screen.
 1. Select the **Position**, press the **ENTER** button.
 2. Press the **▲**, **▼**, **◀** or **▶** button to move the picture.
 3. Press the **ENTER** button.
- If you want to reset the position you adjusted, select **Reset** in the **Position** screen. The picture will be set to its default position.
- Depending on the input source, the picture size options may vary.



- The available items may differ depending on the selected mode.
- When connecting a PC, only **16:9** and **4:3** modes can be adjusted.
- Settings can be adjusted and stored for each external device connected to an input on the TV.
- If you use the **Screen Fit** function with HDMI 720p input, 1 line will be cut at the top, bottom, left and right as in the overscan function.

Input Source	Picture Size
ATV/AV	
DTV(720p, 1080i, 1080p)	16:9, Wide Zoom, Zoom, 4:3
Component(480i, 480p, 576i, 576p)	
Component(720p, 1080i, 1080p)	
HDMI(720p, 1080i, 1080p)	16:9, Wide Zoom, Zoom, 4:3, Screen Fit
PC	16:9, 4:3

● PC Screen Adjustment

 It is available in **PC** mode.

Coarse / Fine: Removes or reduces picture noise. If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (**Coarse**) and Fine-tune again. After the noise has been reduced, readjust the picture so that it is aligned to the centre of screen.

Position: Adjust the PC's screen positioning if it does not fit the TV screen. Press the ▲ or ▼ button to adjust the Vertical-Position. Press the ◀ or ▶ button to adjust the Horizontal-Position.

Image Reset: Resets the image to default settings.

■ Auto Adjustment

 **MENU**  → **Picture** → **Auto Adjustment** → **ENTER** 

Adjust frequency values/positions and fine tune the settings automatically.

 It is available in **PC** mode.

 Not available when connecting through HDMI/DVI cable.

Using Your TV as a Computer (PC) Display

Setting Up Your PC Software (Based on Windows XP)

Depending on the version of Windows and the video card, the actual screens on your PC will probably look different, but the same basic set-up information will apply in most cases. (If not, contact your computer manufacturer or Samsung Dealer.)



1. Click on “Control Panel” on the Windows start menu.
2. Click on “Appearance and Themes” in the “Control Panel” window and a display dialog-box will appear.
3. Click on “Display” and a display dialog box will appear.
4. Navigate to the “Settings” tab on the display dialog-box.
 - The correct size setting (resolution)
 - If a vertical-frequency option exists on your display settings dialog box, the correct value is ‘60’ or ‘60 Hz’. Otherwise, just click ‘OK’ and exit the dialog box.



□ Changing the Picture Options

■ Advanced Settings

☞ MENU III → Picture → Advanced Settings → ENTER ↵

(available in Standard / Movie mode)

Compared to previous models, new Samsung TVs have more precise pictures.

- ☞ When connecting a PC, you can only make changes to **Gamma** and **White Balance**.
- **Black Tone (Off / Dark / Darker / Darkest)**: Select the black level to adjust the screen depth.



- **Dynamic Contrast (Off / Low / Medium / High)**: Adjust the screen contrast.
- **Shadow Detail**: Increase the brightness of dark images.
- **Gamma**: Adjust the primary colour intensity.
- **RGB Only Mode (Off / Red / Green / Blue)**: Displays the Red, Green and Blue colour for making fine adjustments to the hue and saturation.
- **Colour Space (Auto / Native)**: Adjust the range of colours available to create the image.



- **White Balance**: Adjust the colour temperature for a more natural picture.
- **R-Offset / G-Offset / B-Offset**: Adjust each colour's (red, green, blue) darkness.
- **R-Gain / G-Gain / B-Gain**: Adjust each colour's (red, green, blue) brightness.
- **Reset**: Resets the **White Balance** to its default settings.
- **Flesh Tone**: Emphasize pink “Flesh Tone”.
- **Edge Enhancement (Off / On)**: Emphasize object boundaries.
- **Motion Lighting (Off / On)**: Reduce power consumption by brightness control adapted motion.



When changing a setting value of **Backlight**, **Contrast**, **Brightness**, **Motion Lighting** will be set to **Off**.



■ Picture Options

MENU  → Picture → Picture Options → ENTER 

 When connecting a PC, you can only make changes to the Colour Tone.

- Colour Tone (Cool / Standard / Warm1 / Warm2)

 Warm1 or Warm2 will be deactivated when the picture mode is Dynamic.

 Settings can be adjusted and stored for each external device connected to an input on the TV.



- **Digital Noise Filter (Off / Low / Medium / High / Auto / Auto Visualization):**

If the broadcast signal received by your TV is weak, you can activate the **Digital Noise Filter** feature to reduce any static and ghosting that may appear on the screen.

-  When the signal is weak, try other options until the best picture is displayed.

Auto Visualization: When changing analog channels, displays signal strength.

-  Only available for analog channels.
-  When bar is green, you are receiving the best possible signal.

- **MPEG Noise Filter (Off / Low / Medium / High / Auto):** Reduces MPEG noise to provide an improved picture quality.

- **HDMI Black Level (Low / Normal)**: Selects the black level on the screen to adjust the screen depth.
 -  Available only in **HDMI** mode (RGB signals).
- **Film Mode (Off / Auto1 / Auto2)**: Sets the TV to automatically sense and process film signals from all sources and adjusts the picture for optimum quality.
 -  Available in ATV, AV, COMPONENT (480i / 1080i) and HDMI (1080i).
 -  If the screen does not seem natural, change its option to **Off/ Auto1/ Auto2** in **Film Mode**.



■ Reset Picture (OK / Cancel)

Resets your current picture mode to its default settings.



□ Changing the Preset Sound Mode

 MENU  → **Sound** → **Sound Mode** → **ENTER** 

■ **Sound Mode**

- **Standard**: Selects the normal sound mode.
- **Music**: Emphasizes music over voices.
- **Movie**: Provides the best sound for movies.
- **Clear Voice**: Emphasizes voices over other sounds.
- **Amplify**: Increase the intensity of high-frequency sound to allow a better listening experience for the hearing impaired.

 If **Speaker Select** is set to **External Speaker**, **Sound Mode** is disabled.

□ Sound Settings

 MENU III → Sound → Sound Effect → ENTER ↵

■ Sound Effect

(standard sound mode only)

Use the ▲ and ▼ arrow keys to select an option, and then press ENTER ↵.

- **SRS TruSurround HD (Off / On)**

This function provides a virtual 5.1 channel surround sound experience through a pair of speakers or headphones using HRTF (Head Related Transfer Function) technology.

- **SRS TruDialog (Off / On)**

This function allows you to increase the intensity of a voice over background music or sound effects so that dialog can be heard more clearly.

- **Equalizer**

Use **Equalizer** to customize sound setting for each speaker.

Balance: Adjusts the balance between the right and left speaker.

100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment): Adjusts the level of specific bandwidth frequencies.

Reset: Resets the equalizer to its default settings.



□ Adjusting Sound Settings

■ Broadcast Audio Options

- **Audio Language** 

(digital channels only)

Change the default value for audio languages.

 The available language may differ depending on the broadcast.

- **Audio Format**

(digital channels only)

When sound is emitted from both the main speaker and the audio receiver, a sound echo may occur due to the decoding speed difference between the main speaker and the audio receiver. In this case, use the TV Speaker function.

 **Audio Format** option may differ depending on the broadcast. 5.1

Channel digital sound is only available when connecting an external speaker through an optical cable.

- **Multi-Track Sound (MTS)** 

(analog channels only)

Mono: Choose for channels that are broadcasting in mono or if you are having difficulty receiving a stereo signal.

Stereo: Choose for channels that are broadcasting in stereo.

SAP: Choose to listen to the Separate Audio Programme, which is usually a foreign-language translation.



Depending on the particular programme being broadcast, you can listen to **Mono**, **Stereo** or **SAP**.



■ Additional Setting

(digital channels only)

- **DTV Audio Level (MPEG / HE-AAC)**: This function allows you to reduce the disparity of a voice signal (which is one of the signals received during a digital TV broadcast) to a desired level.
 - According to the type of broadcast signal, **MPEG/HE-AAC** can be adjusted between -10dB and 0dB.
 - To increase or decrease the volume, adjust between the range 0 and -10 respectively.



- **SPDIF Output**

SPDIF (Sony Philips Digital InterFace) is used to provide digital sound, reducing interference going to speakers and various digital devices such as a DVD player.

Audio Format: You can select the Digital Audio output (SPDIF) format. The available Digital Audio output (SPDIF) format may differ depending on the input source.

- By connecting to 5.1ch speakers in a dolby digital setup, maximize your interactive 3D sound experience.

Audio Delay: Correct audio-video mismatch, when watching TV or video, and listening to digital audio output using an external device such as an AV receiver (0ms ~ 250ms).

- **Dolby Digital Comp (Line / RF)**: This function minimizes signal disparity between a dolby digital signal and a voice signal (i.e. MPEG Audio, HE-AAC, ATV Sound).

 Select **Line** to obtain dynamic sound, and **RF** to reduce the difference between loud and soft sounds at night time.

Line: Set the output level for signals greater or less than -31dB (reference) to either -20dB or -31dB.

RF: Set the output level for signals greater or less than -20dB (reference) to either -10dB or -20dB.



Speaker Settings

- **Speaker Select (External Speaker / TV Speaker)**

A sound echo may occur due to a difference in decoding speed between the main speaker and the audio receiver. In this case, set the TV to **External Speaker**.

-  When **Speaker Select** is set to **External Speaker**, the volume and **MUTE** buttons will not operate and the sound settings will be limited.
-  When **Speaker Select** is set to **External Speaker**, you should use these settings.
 - **TV Speaker:** Off, **External Speaker:** On
-  When **Speaker Select** is set to **TV Speaker**, you should use these settings.
 - **TV Speaker:** On, **External Speaker:** On
-  If there is no video signal, both speakers will be mute.

- **Auto Volume (Off / Normal / Night)**

To equalize the volume level on each channel, set to **Normal**.

Night: This mode provides an improved sound experience compared to **Normal** mode, making almost no noise. It is useful at night.

-  To use the volume control on the source device connected to the TV, set **Auto Volume** to **Off** on the TV. Otherwise, a change to the volume control of the source device may not be applied.



■ Reset Sound (OK / Cancel)

Resets your current sound mode to its default settings.



Selecting the Sound Mode

When you set to **Dual I-II**, the current sound mode is displayed on the screen.

	Audio Type	Dual I-II	Default
A2 Stereo	Mono	Mono	Automatic change
	Stereo	Stereo ↔ Mono	
	Dual	Dual I ↔ Dual II	Dual I
NICAM Stereo	Mono	Mono	Automatic change
	Stereo	Mono ↔ Stereo	
	Dual	Mono → Dual I Dual II ←	Dual I

-  If the stereo signal is weak and an automatic switching, occurs, then switch to the mono.
-  Only activated in stereo sound signal.
-  Only available when the **Source** is set to **TV**.

Setting the Time

 MENU  → **System** → **Time** → **ENTER** 

Time

-  The current time will appear every time you press the **INFO** button.
 - **Clock:** Setting the clock is for using various timer features of the TV.
 -  If you disconnect the power cord, you have to set the clock again.
- Clock Mode:** Set up the current time manually or automatically.
- **Auto:** Set the current time automatically using the time from a digital channel.
-  The antenna must be connected in order to set the time automatically.

- **Manual:** Set the current time manually.
 -  Depending on the broadcast station and signal, the auto time set up may not be correct. In this case, set the time manually.

Clock Set: Set the **Day**, **Month**, **Year**, **Hour**, **Minute** and **am/pm**.

-  Available only when **Clock Mode** is set to Manual.
-  You can set the day, month, year, hour and minute directly by pressing the number buttons on the remote control.



□ Using the Sleep Timer

 MENU  → **System** → **Time** → **Sleep Timer** → **ENTER** 

- **Sleep Timer** : Automatically shuts off the TV after a preset period of time.
(30, 60, 90, 120, 150 and 180 minutes).
-  To cancel the **Sleep Timer**, select **Off**.



□ Setting the On/Off Timer

↙ MENU III → System → Time → ENTER ↴

- **On Timer:** Three different on timer settings can be made. You must set the clock first.

Setup: Select **Off, Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun** or **Manual** to set at your convenience. If you select **Manual**, you can set up the day you want to activate the timer.

↙ The ✓ mark indicates the day you've selected.



On Time: Set the hour, minute, am/pm.

Volume: Set the desired volume level.

Source: Select **TV** or **USB** content to be played when the TV is turned on automatically. (USB can be selected only when a USB device is connected to the TV)

Antenna (when the **Source** is set to **TV**): Select the desired broadcasting signal.

Channel (when the **Source** is set to **TV**): Select the desired channel.

Music / Photo (when the **Source** is set to **USB**): Select a folder in the USB device containing music or photo files to be played when the TV is turned on automatically.





Note

- If there is no music file on the USB device or the folder containing a music file is not selected, the Timer function does not operate correctly.
- When there is only one photo file in the USB, the Slide Show will not play.
- If a folder with a too long name cannot be selected.
- Each USB you use is assigned its own folder. When using more than one of the same type of USB, make sure the folders assigned to each USB have different names.
- It is recommended that you use a USB memory stick and a multi card reader when using **On Timer**.
- The **On Timer** function may not work with USB devices with a built-in battery, MP3 players, or PMPs made by some manufacturers because these devices take a long time to be recognized.



- **Off Timer:** Three different off timer settings can be made. You must set the clock first.

Setup: Select **Off**, **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, **Sat~Sun** or **Manual** to set at your convenience. If you select **Manual**, you can set up the day you want to activate the timer.

 The ✓ mark indicates the day you've selected.

Off Time: Set the hour, minute, and am/pm.



□ Locking Programmes

 MENU  → **System** → **Security** → **ENTER** 

■ Security

-  The PIN input screen appears before the setup screen.
-  Enter your 4-digit PIN, the default of which is 0-0-0-0. Change the PIN using the Change PIN option.
- **Channel Lock (Off / On)**: Lock channels in **Channel Manager**, to prevent unauthorized users, such as children, from watching unsuitable programme.
- **Change PIN**: The **Change PIN** screen will appear. Choose any 4 digits for your PIN and enter it in the **Enter New PIN**. Re-enter the same 4 digits in the **Confirm New PIN**. When the Confirm screen appears, press the **OK** button. Your PIN has been memorized.
 -  If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to “0-0-0-0” : **POWER** (off) → **MUTE** → **8** → **2** → **4** → **POWER** (on)

□ Picture In Picture (PIP)

 MENU  → **System** → **PIP** → **ENTER** 

■ PIP **TOOLS**

You can watch the TV tuner and one external video source simultaneously. **PIP** (Picture-in-Picture) does not function in the same mode.

NOTE

- For PIP sound, refer to the **Sound Select** instructions.
- If you turn the TV off while watching in **PIP** mode, the PIP window will disappear.
- You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.



- PIP Settings

Main picture	Sub picture
Component, HDMI, PC	TV

- **PIP (Off / On)**: Activate or deactivate the PIP function.
- **Air/Cable (Air / Cable)**: Select either **Air** or **Cable** as the input source for the sub-screen.
- **Channel**: Select the channel for the sub-screen.
- **Size** (■ / ■): Select a size for the sub-picture.
- **Position** (■ / ■ / ■ / ■): Select a position for the sub-picture.
- **Sound Select (Main / Sub)**: You can choose the desired sound (**Main** or **Sub**) in **PIP** mode.



Economical Solutions

Eco Solution

- Energy Saving (Off / Low / Medium / High / Picture Off) **TOOLS**: This adjust the brightness of the TV in order to reduce power consumption. If you select **Picture Off**, the screen is turned off, but the sound remains on. Press any button except volume button to turn on the screen.
- **No Signal Power Off (Off / 15 min. / 30 min. / 60 min.)**: Sets how quickly the TV switches to standby mode, if no picture is being received.
 -  Disabled when the PC is in power saving mode.
- **Auto Power Off (Off / On)**: The TV will be automatically turned off when no user operation is received for 4 hours.

■ Auto Protection Time

- **Auto Protection Time (Off / 2 hours / 4 hours / 8 hours / 10 hours):** If the screen remains idle with a still image for a certain period of time defined by the user, the screen saver is activated to prevent the formation of ghost images on the screen.



□ Other Features

 MENU  → System → ENTER 

■ Language

- **Menu Language:** Set the menu language.
 1. Select **Menu Language** and press the **ENTER ** button.
 2. Choose desired language and press the **ENTER ** button.
 -  Choose between **English** and **Chinese**.
- **Preference (Primary Audio Language / Secondary Audio Language / Primary Subtitle Language / Secondary Subtitle Language):** Select a language, which will be the default language when a channel is selected.

■ Subtitle

Use this menu to set the **Subtitle** mode.

-  The subtitle feature does not work in Component or HDMI modes.
- **Subtitle (Off / On)**: Switches subtitles on or off.
- **Subtitle Mode (Normal / Hearing Impaired)** : Sets the subtitle mode.
- **Subtitle Language**: Sets the subtitle language.
 -  If the programme you are watching does not support the **Hearing Impaired** function, **Normal** automatically activates even if the **Hearing Impaired** mode is selected.
 -  English is the default in cases where the selected language is unavailable in the broadcast.

■ General

- **Game Mode (Off / On)**: When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience selecting the game menu.



NOTE

- Precautions and limitations for game mode
 - To disconnect the game console and connect another external device, set **Game Mode** to **Off** in the setup menu.
 - If you display the TV menu in **Game Mode**, the screen shakes slightly.
- **Game Mode** is not available when the input source is set to **TV** or **PC**.

- After connecting the game console, set **Game Mode** to **On**. Unfortunately, you may notice reduced picture quality.
- If **Game Mode** is **On**:
 - **Picture Mode** is set to **Standard** and **Sound Mode** is set to **Movie**.
- **Menu Transparency (Bright / Dark)**: Set the Transparency of the menu.
- **Boot Logo (Off / On)**: Display Samsung logo when the TV is turned on.



■ Anynet+(HDMI-CEC)

For details on set up options, refer to the “[Anynet+\(HDMI-CEC\)](#)” instructions.



■ DivX® Video On Demand

Shows the registration code authorized for the TV. If you connect to the DivX web site and register, you can download the VOD registration file. If you play the VOD registration using **My Downloads**, the registration is completed.

 For more information on DivX® VOD, visit “<http://vod.divx.com>”.



Support Menu

 MENU  → **Support** → **ENTER** 

e-Manual

You can read the introduction and instructions about the TV features stored in your TV.

 For the detailed information about e-Manual Screen, refer to “How to view the e-Manual” in User Manual.



■ Self Diagnosis

- **Picture Test (Yes / No)**: Use to check for picture problems. If the problem continues to occur, check the Colour pattern.
Yes: If the test picture does not appear or there is noise in the test pattern, select Yes. There may be a problem with the TV. Contact Samsung's Call Centre for assistance.
No: If the test picture is properly displayed, select No. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.

- **Sound Test (Yes / No)**: Use the built-in melody sound to check for sound problems.
 -  If you hear no sound from the TV's speakers, before performing the sound test, make sure **Speaker Select** is set to **TV Speaker** in the **Sound** menu.
 -  The melody will be heard during the test even if **Speaker Select** is set to **External Speaker** or the sound is muted by pressing the **MUTE** button.
- Yes**: If you can hear sound only from one speaker or not at all during the sound test, select Yes. There may be a problem with the TV. Contact Samsung's Call Centre for assistance.
- No**: If you can hear sound from the speakers, select No. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.

- **Signal Information:** (digital channels only) An HD channel's reception quality is either perfect or the channels are unavailable. Adjust your antenna to increase signal strength.
- **Troubleshooting:** If the TV seems to have a problem, refer to this description.
 -  If none of these troubleshooting tips apply, contact the Samsung customer service centre.

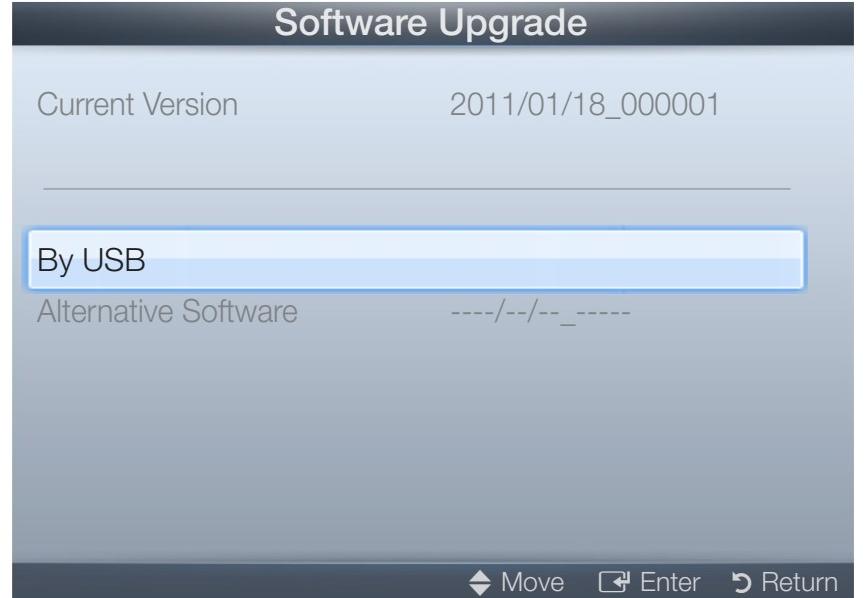


■ Software Upgrade

Software Upgrade can be performed by downloading the latest firmware from “www.samsung.com,” to a USB memory device.

Current Version - the software already installed in the TV.

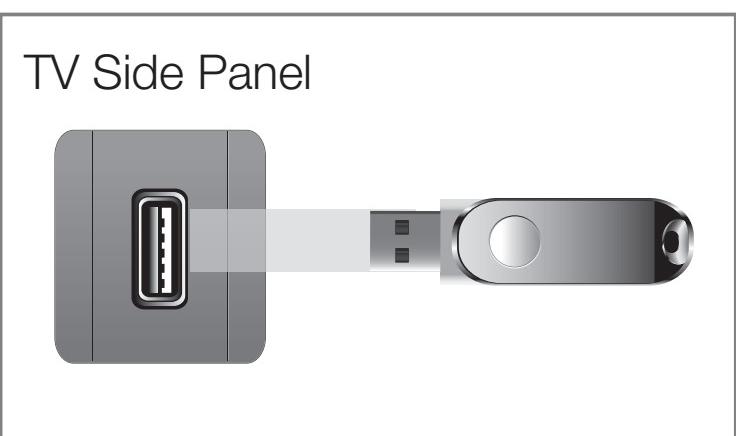
- Software is represented as ‘Year/Month/Day_Version’.



* It may differ depending on the model.

Installing the Latest Version

- **By USB:** Insert a USB drive containing the firmware upgrade file, downloaded from www.samsung.com, into the TV. Please be careful not to disconnect the power or remove the USB drive until upgrades are complete. The TV will be turned off and on automatically after completing the firmware upgrade. When software is upgraded, video and audio settings you have made will return to their default settings. We advise you to write down your settings so that you can easily reset them after the upgrade.
- **Alternative Software**(backup): Displays the Software version downloaded through **By Online**. During the software upgrading, When the Upgrade will discontinue from last step, this function be activated.



* It may differ depending on the model.

■ Contact Samsung

View this information when your TV does not work properly or when you want to upgrade the software. You can find information regarding our call centres, and how to download products and software.

■ Contents Home

You can enjoy useful and various contents.



□ Using the My Downloads

Enjoy photos, music and/or movie files saved on a USB Mass Storage Class (MSC) device and/or your PC.

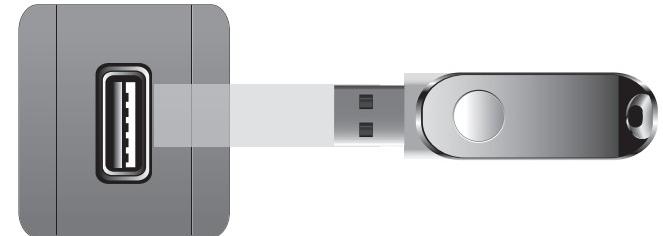
1. Press the **CONTENT** button to select **My Downloads**.
2. Press **▲/▼** button to select desired menu (**Videos**, **Photos**, **Music**), then press the **ENTER** button.



Connecting a USB Device

1. Turn on your TV.
2. Connect a USB device containing photo, music and/or movie files to the USB jack on the side of the TV.
3. When USB is connected to the TV, popup window appears. Then you can select **Connected Device**.

TV Side Panel



* It may differ depending on the model.





It might not work properly with unLicenced multimedia files.



Need-to-Know List before using **My Downloads**.

- MTP (Media Transfer Protocol) is not supported.
- The file system supports FAT16, FAT32 and NTFS.
- Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- **My Downloads** only supports USB Mass Storage Class (MSC) devices.

MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives, Flash Card Readers and USB HDD (USB HUB are not supported). Devices should be connected directly to the TV's USB port.

- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.



- USB (HDD) is not supported.
- Do not disconnect the USB device while it is loading.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360X8640 pixels.
- For unsupported or corrupted files, the “Not Supported File Format” message is displayed.
- If the files are sorted by **Folder View**, up to 1000 files can be displayed in each folder.



- MP3 files with DRM that have been downloaded from a non-free site cannot be played. Digital Rights Management (DRM) is a technology that supports the creation, distribution and management of the content in an integrated and comprehensive way, including the protection of the rights and interests of the content providers, the prevention of the illegal copying of contents, as well as managing billings and settlements.
- If more than 2 PTP devices are connected, you can only use one at a time.
- If more than two MSC devices are connected, some of them may not be recognized. A USB device that requires high power (more than 500mA or 5V) may not be supported.
- If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.
- If the TV has been no input during time set in **Auto Protection Time**, the Screensaver will run.
- The power-saving mode of some external hard disk drives may be released automatically when connected to the TV.

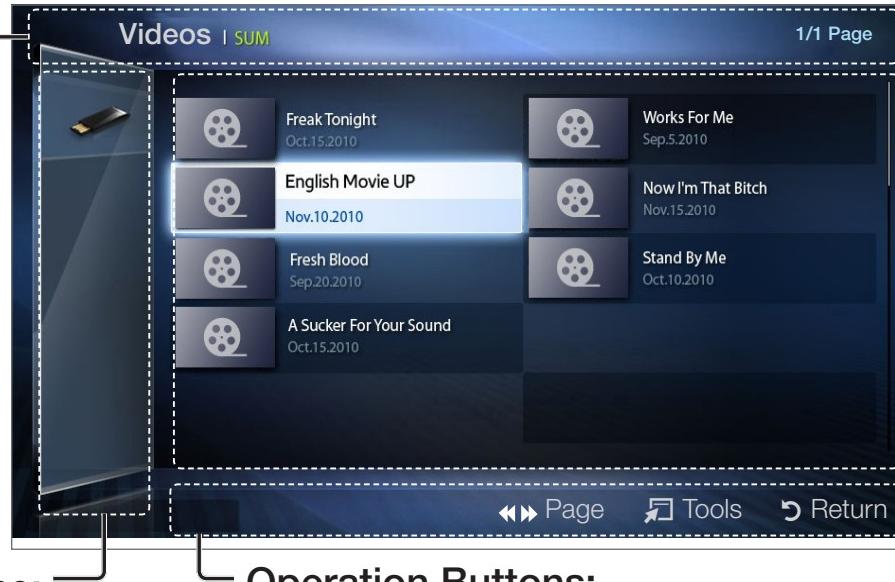
- If a USB extension cable is used, the USB device may not be recognised or the files on the device may not be read.
- If a USB device connected to the TV is not recognised, the list of files on the device is corrupted or a file in the list is not played, connect the USB device to the PC, format the device and check the connection.
- If a file deleted from the PC is still found when **My Downloads** is run, use the “Empty the Recycle Bin” function on the PC to permanently delete the file.
- **My Downloads** only supports sequential jpeg format.
- The scene search and thumbnail functions are not supported in the **Videos**.
- If the number of files and folders saved on a USB storage device is approximately over 4000, the files and folders may not appear and some folders may not be opened.

□ Screen Display

Move to the desired file using the **◀/▶/▲/▼** buttons and then press the **ENTER ↴** or **▶ (Play)** button. The file is played. **My Downloads** screen may differ depending on the way to enter the screen.

Information:

You can ascertain the selected device name, contents mode, folder/file name, page and sorting list.



File List Section:

You can confirm the files and groups that are sorted by category.

Contents mode / Device name:

You can select the desired Contents mode or Device name.

Operation Buttons:

- **c** Yellow (**Edit Mode**): Selects the desired music. The check box is shown in the screen to check the music you want. It is only available in Music.
- **◀▶ Page**: Move to next or previous page.
- **🔧 Tools**: Displays the option menu.
- **⟲ Return**: Move to the previous step.

■ Videos

Playing Video

1. Press the **◀/▶/▲/▼** button to select the desired video in the file list.
2. Press the **ENTER ↴** button or **▶** (Play) button.
 - The selected file name is displayed on the top with its playing time.
 - If video time information is unknown, play time and progress bar are not displayed.



- During video playback, you can search using ◀ and ▶ button.
 - You can use (◀◀) (REW) and (▶▶) (FF) buttons during playback.
-  In this mode, you can enjoy movie clips contained on a Game, but you cannot play the Game itself.
- Supported Subtitle Formats

Name	File extension	Format
MPEG-4 time-based text	.ttx	XML
SAMI	.smi	HTML
SubRip	.srt	string-based
SubViewer	.sub	string-based
Micro DVD	.sub or .txt	string-based

- Supported Video Formats

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv	AVI MKV	DivX 3.11/4.x/5.1/6.0	1920 x 1080	6 ~ 30	8	MP3 / AC3 / LPCM / ADPCM / DTS Core
		H.264 BP/MP/HP	1920 x 1080	6 ~ 30	25	
		MPEG4 SP/ASP	1920 x 1080	6 ~ 30	8	
		Motion JPEG	640 x 480	6 ~ 30	8	

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.asf	ASF	DivX 3.11/4.x/5.1/6.0	1920 x 1080	6 ~ 30	8	MP3 / AC3 / LPCM / ADPCM / WMA
		H.264 BP/MP/HP	1920 x 1080	6 ~ 30	25	
		MPEG4 SP/ASP	1920 x 1080	6 ~ 30	8	
		Motion JPEG	640 x 480	6 ~ 30	8	
*.wmv	ASF	Window Media Video v9	1920 x 1080	6 ~ 30	25	WMA

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.mp4	MP4	H.264 BP/MP/HP	1920 x 1080	6 ~ 30	25	MP3 / ADPCM / AAC
		MPEG4 SP/ASP	1920 x 1080	6 ~ 30	8	
*.3gp	3GPP	H.264 BP/MP/HP	1920 x 1080	6 ~ 30	25	ADPCM / AAC / HE-AAC
		MPEG4 SP/ASP	1920 x 1080	6 ~ 30	8	
*.vro	VRO VOB	MPEG2	1920 x 1080	24/25/30	30	AC3 / MPEG / LPCM
		MPEG1	1920 x 1080	24/25/30	30	

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.mpg *.mpeg	PS	MPEG1	1920 x 1080	24/25/30	30	AC3 / MPEG / LPCM / AAC
		MPEG2	1920 x 1080	24/25/30	30	
		H.264	1920 x 1080	6 ~ 30	25	
*.ts *.tp *.trp	TS	MPEG2	1920 x 1080	24/25/30	30	AC3 / AAC / MP3 / DD+ / HE-AAC
		H.264	1920 x 1080	6 ~ 30	25	
		VC1	1920 x 1080	6 ~ 30	25	
*.rmvb	RMVB	RV 3.0/ RV 4.0	1920 x 1080	30	10	RealAudio 6, 9, 10

*.rmvb format is supported only in China and Hong Kong.

Other Restrictions



NOTE

- Video content will not play, or not play correctly, if there is an error in the content or the container.
- Sound or video may not work if the contents have a standard bit rate/ frame rate above the compatible Frame/sec listed in the table above.
- If the Index Table is in error, the Seek (Jump) function is not supported.
- The menu can be displayed late if the video is over 10Mbps(bit rate).
- Some USB/digital camera devices may not be compatible with the player.
- Video content can not be played, if there are many contents in one file.

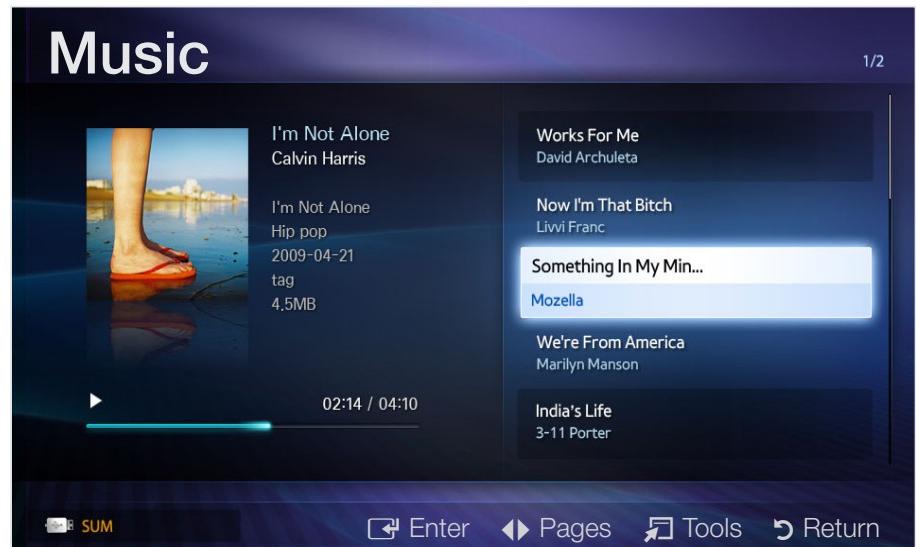
Video Decoder	Audio Decoder
<ul style="list-style-type: none">• Supports up to H.264, Level 4.1• H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported.• MPEG4 SP, ASP :<ul style="list-style-type: none">– Below 1280 x 720: 60 frame max– Above 1280 x 720: 30 frame max• GMC is not support.	<ul style="list-style-type: none">• Supports up to WMA 7, 8, 9, STD, 9 PRO• WMA Lossless, Voice Lossless, Voice is not supported.• WMA sampling rate 22050Hz mono is not supported.



Music

Playing Music

1. Press the **◀/▶/▲/▼** button to select the desired Music in the file list.
2. Press the **ENTER ↴** button or **▶** (Play) button.
 - You can use **◀◀** (REW) and **▶▶** (FF) buttons during playback.



-  Only displays the files with MP3 file extension. Other file extensions are not displayed, even if they are saved on the same USB device.
-  If the sound is abnormal when playing MP3 files, adjust the **Equalizer** in the **Sound** menu. (An over-modulated MP3 file may cause a sound problem.)

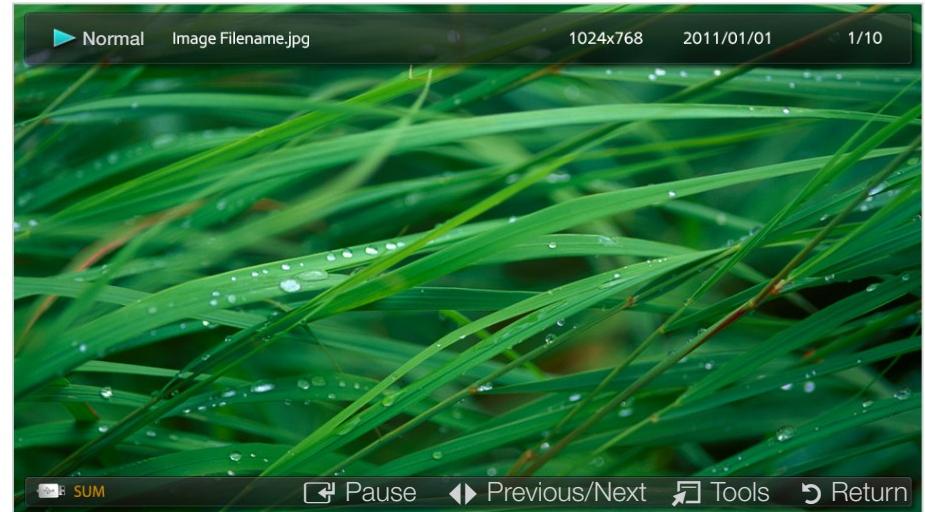
Playing selected music

1. Press the **c** (**Edit Mode**) button.
2. Select the desired music.
 -  The check box appears to the left of the selected files.
3. Press the **TOOLS** button and select **Play Selected Contents**.
 -  You can select or deselect all music pressing the **Select All/Deselect All**.

Photos

Viewing a Photo (or Slide Show)

1. Press the **◀/▶/▲/▼** button to select the desired photo in the file list.
 2. Press the **ENTER ↴** button.
 - When a selected photo is displayed, press the **ENTER ↴** button to start the slide show.
 - During the slide show, all files in the file list will be displayed in order.
-  When you press the **▶** (Play) button in the file list, slide show will be started immediately.
-  Music files can be automatically played during the Slide Show if the **Background Music** is set to **On**.



□ My Downloads - Additional Functions

Videos/Music/Photos Play Option menu

During playing a file, press the **TOOLS** button.

Category	Operation	Videos	Music	Photos
Title Search	You can move the other file directly.	✓		
Time Search	You can search the video using ◀ and ▶ button at one minute interval or entering the number directly.	✓		
Shuffle Mode	You can play the music randomly.		✓	
Repeat Mode	You can play movie and music files repeatedly.	✓	✓	



Category	Operation	Videos	Music	Photos
Picture Size	You can adjust the picture size to your preference.	✓		
Picture Mode	You can adjust the picture setting.	✓		✓
Sound Mode	You can adjust the sound setting.	✓	✓	✓
Subtitle Setting	You can play the video with Subtitles. This function only works if the subtitles are the same file name as the video.	✓		



Category	Operation	Videos	Music	Photos
Subtitle Language	You can enjoy video in one of supported languages as required. The function is only enabled when stream-type files which support multiple audio formats are played.	✓		
Start Slide Show / Pause Slide Show	You can start or pause a Slide Show.			✓
Slide Show Speed	You can select the slide show speed during the slide show.			✓



Category	Operation	Videos	Music	Photos
Background Music	You can turn background music on and off when watching a slide show.			✓
Background Music Setting	You can select background music when watching a Slide Show.			✓
Zoom	You can zoom into images in full screen mode.			✓
Rotate	You can rotate images in full screen mode.			✓
Information	You can see detailed information about the played file.	✓	✓	✓



What is Anynet+?

Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung TV's remote. The Anynet+ system can be used only with Samsung devices that have the Anynet+ feature. To be sure your Samsung device has this feature, check if there is an Anynet+ logo on it.

NOTE

- Connect the Optical cable between the DIGITAL AUDIO OUT (OPTICAL) jack on your TV and the Digital Audio Input on the Home Theater.
- When following the connection above, the Optical jack only outputs 2 channel audio. You will only hear sound from the Home Theater's Front Left and Right speakers and the subwoofer. If you want to hear 5.1 channel audio, connect the DIGITAL AUDIO OUT (OPTICAL) jack on the DVD / Satellite Box (i.e. Anynet Device 1 or 2) directly to the Amplifier or Home Theater, not the TV.

- You can connect only one Home Theater.
- You can connect an Anynet+ device using the HDMI cable. Some HDMI cables may not support Anynet+ functions.
- Anynet+ works when the AV device supporting Anynet+ is in the standby or on status.
- Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.



Anynet+ Menu

 **TOOLS**  → **Anynet+ (HDMI-CEC)** → **ENTER** 

The Anynet+ menu changes depending on the type and status of the Anynet+ devices connected to the TV.

Anynet+ Menu	Description
View TV	Changes Anynet+ mode to TV broadcast mode.
Device List	Shows the Anynet+ device list.
(device_name) MENU	Shows the connected device menus. E.g. If a DVD recorder is connected, the disc menu of the DVD recorder will appear.
(device_name) TOOLS	Shows the play menu of the connected device. E.g. If a DVD recorder is connected, the play menu of the DVD recorder will appear.
(device_name) Title Menu	Shows the title menu of the connected device. E.g. If a DVD recorder is connected, the title menu of the DVD recorder will appear. - Depending on the device, this menu may not be available.
Receiver	Sound is played through the receiver.

Setting Up Anynet+

 MENU  → **System** → **Anynet+ (HDMI-CEC)** → **ENTER** 

Anynet+ (HDMI-CEC)

Anynet+ (HDMI-CEC) (Off / On): To use the Anynet+ Function, **Anynet+ (HDMI-CEC)** must be set to **On**.

 When the **Anynet+ (HDMI-CEC)** function is disabled, all the Anynet+ related operations are deactivated.

Auto Turn Off (No / Yes): Setting an Anynet+ Device to turn off automatically when the TV is turned off.

 If **Auto Turn Off** is set to **Yes**, running external devices will turn off at the same time as the TV powers off.

 May not be enabled depending on the device.

Switching between Anynet+ Devices

1. Press the **TOOLS** button, then select **Anynet+ (HDMI-CEC)**.
2. Anynet+ devices connected to the TV are listed in **Device List**.
 -  If you cannot find a device you want, press the **A** button to refresh the list.
3. Select a device and press the **ENTER**  button. You can switch to the selected device.
 -  Only when you set **Anynet+ (HDMI-CEC)** to **On** in the **System** menu, the **Device List** menu appears.
 - Switching to the selected device may take up to 2 minutes. You cannot cancel the operation during the switching operation.
 - If you have selected external input mode by pressing the **SOURCE** button, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the **Device List**.

Listening through a Receiver

You can listen to sound through a receiver (i.e Home Theater) instead of the TV speaker.

1. Select **Receiver** and set to **On**.
2. Press the **EXIT** button to exit.

-  If your receiver supports audio only, it may not appear in the device list.
-  The receiver will work when you have properly connected the optical in jack of the receiver to the DIGITAL AUDIO OUT (OPTICAL) jack of the TV.
-  When the receiver (i.e Home Theater) is set to **On**, you can hear sound output from the TV's Optical jack. When the TV is displaying a DTV (air) signal, the TV will send out 5.1 channel sound to the receiver. When the source is a digital component such as a DVD and is connected to the TV via HDMI, only 2 channel sound will be heard from the receiver.



NOTE

- You can only control Anynet+ devices using the TV remote control, not the buttons on the TV.
- The TV remote control may not work under certain conditions. If this occurs, reselect the Anynet+ device.
- The Anynet+ functions do not operate with other manufacturers' products.



□ Troubleshooting for Anynet+

Problem	Possible Solution
Anynet+ does not work.	<ul style="list-style-type: none">● Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only.● Only one receiver (home Theater) can be connected.● Check if the Anynet+ device power cord is properly connected.● Check the Anynet+ device's Video/Audio/HDMI cable connections.● Check whether Anynet+ (HDMI-CEC) is set to On in the System menu.

Problem	Possible Solution
Anynet+ does not work.	<ul style="list-style-type: none">● Check whether the TV remote control is in TV mode.● Check whether the remote control is Anynet+ compatible.● Anynet+ does not work in certain situations. (Searching channels, operating My Downloads or Plug & Play (initial setup), etc.)● When connecting or removing the HDMI cable, please make sure to search devices again or turn your TV off and on again.● Check if the Anynet+ Function of Anynet+ device is set on.



Problem	Possible Solution
I want to start Anynet+.	<ul style="list-style-type: none">● Check if the Anynet+ device is properly connected to the TV and check if the Anynet+ (HDMI-CEC) is set to On in the System menu.● Press the TOOLS button to display the Anynet+ menu and select a menu you want.
I want to exit Anynet+.	<ul style="list-style-type: none">● Select View TV in the Anynet+ menu.● Press the SOURCE button on the TV remote control and select a device other than Anynet+ devices.● Press ▼ CH ▲ to change the TV mode. (Note that the channel button operates only when a tuner-embedded Anynet+ device is not connected.)

Problem	Possible Solution
The message “ Connecting to Anynet+ device... ” appears on the screen.	<ul style="list-style-type: none">• You cannot use the remote control when you are configuring Anynet+ or switching to a view mode.• Use the remote control when the Anynet+ setting or switching to view mode is complete.
The Anynet+ device does not play.	<ul style="list-style-type: none">• You cannot use the play function when Plug & Play (initial setup) is in progress.



Problem	Possible Solution
The connected device is not displayed.	<ul style="list-style-type: none">● Check whether or not the device supports Anynet+ functions.● Check whether or not the HDMI cable is properly connected.● Check whether Anynet+ (HDMI-CEC) is set to On in the System menu.● Search Anynet+ devices again.● You can connect an Anynet+ device using the HDMI cable only. Some HDMI cables may not support Anynet+ functions.● If it is terminated by an abnormal situation such as disconnecting the HDMI cable or power cord or a power failure, please repeat the device scan.

Problem

Possible Solution

The TV sound is not output through the receiver.

- Connect the optical cable between TV and the receiver.



Troubleshooting

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, visit “www.samsung.com” then click on Support, or call Samsung customer service.

Issues	Solutions and Explanations
Poor picture	<p>First of all, please perform the Picture Test and confirm that your TV is properly displaying test image.</p> <ul style="list-style-type: none">• go to MENU - Support - Self Diagnosis - Picture Test <p>If the test image is properly displayed, the poor picture may caused by the source or signal.</p>

Issues	Solutions and Explanations
<p>The TV image does not look as good as it did in the store.</p>	<ul style="list-style-type: none"> ● If you have an analog Cable/Set top box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality. ● Cable/Satellite subscribers: Try HD stations from the channel line up. ● Air/Cable Antenna connection: Try HD stations after performing Auto programme. <p> Many HD channels are up scaled from SD(Standard Definition) contents.</p> <ul style="list-style-type: none"> ● Adjust the Cable/Set top box video output resolution to 1080i or 720p.

Issues	Solutions and Explanations
The picture is distorted: macro block error, small block, dots, pixelization.	<ul style="list-style-type: none"> ● Compression of video contents may cause picture distortion, especially in fast moving pictures such as sports and action movies. ● Low signal level can cause picture distortion. This is not a TV problem. ● Mobile phones used close to the TV (up to 3.3 ft) may cause noise in picture on analog and digital TV.
Colour is wrong or missing.	<ul style="list-style-type: none"> ● If you're using component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause colour problems or a blank screen.

Issues	Solutions and Explanations
There is poor colour or brightness.	<ul style="list-style-type: none"> • Adjust the Picture options in the TV menu. (go to Picture Mode / Colour / Brightness / Sharpness) • Adjust Energy Saving option in the TV menu (go to MENU - System - Eco Solution - Energy Saving) • Try resetting the picture to view the default picture setting. (go to MENU - Picture - Reset Picture)
There is a dotted line on the edge of the screen.	<ul style="list-style-type: none"> • If the picture size is set to Screen Fit, change it to 16:9. • Change cable/Set top box resolution.

Issues	Solutions and Explanations
The picture is black and white.	<ul style="list-style-type: none">• If you are using an AV composite input, connect the video cable (yellow) to the Green jack of component input 1 on the TV.
When changing channels, the picture freezes or is distorted or delayed.	<ul style="list-style-type: none">• If connected to a cable box, please try to reset it. (reconnect the AC cord and wait until the cable box reboots. It may take up to 20 minutes).• Set output resolution of the cable box to 1080i or 720p.

Issues	Solutions and Explanations
Sound Problem	<p>First of all, please perform the Sound Test to confirm that your TV audio is properly operating.</p> <ul style="list-style-type: none"> • go to MENU - Support - Self Diagnosis - Sound Test <p>If the audio is OK, the sound problem may caused by the source or signal.</p>
There is no sound or the sound is too low at maximum volume.	<ul style="list-style-type: none"> • Please check the volume of the device (Cable/Sat Box, DVD, Blu-ray etc) connected to your TV.

Issues	Solutions and Explanations
The picture is good but there is no sound.	<ul style="list-style-type: none">• Set the Speaker Select option to TV Speaker in the Sound menu.• If you are using an external device, check the device's audio output option (ex. you may need to change your cable box's audio option to HDMI when you have a HDMI connected to your TV).• If you are using a DVI to HDMI cable, a separate audio cable is required.• Reboot the connected device by reconnecting the device's power cable.

Issues	Solutions and Explanations
The speakers are making an inappropriate noise.	<ul style="list-style-type: none">Check the cable connections. Make sure a video cable is not connected to an audio input.For Antenna or Cable connections, check the signal information. Low signal level may cause sound distortion.Perform the Sound Test as explained above.
No Picture, No Video	
The TV will not turn on.	<ul style="list-style-type: none">Make sure the AC power cord is securely plugged into the wall outlet and the TV.Make sure the wall outlet is working.Try pressing the POWER button on the TV to make sure the problem is not the remote. If the TV turns on, refer to 'Remote control does not work' below.

Issues	Solutions and Explanations
The TV turns off automatically.	<ul style="list-style-type: none">● Ensure the Sleep Timer is set to Off in the System menu.● If your PC is connected to the TV, check your PC power settings.● Make sure the AC power cord is plugged in securely to the wall outlet and the TV.● When watching TV from an antenna or cable connection, the TV will turn off after 10 - 15 minutes if there is no signal.

Issues	Solutions and Explanations
There is no picture/video.	<ul style="list-style-type: none">• Check cable connections. (remove and reconnect all cables connected to the TV and external devices.)• Set your external device's (Cable/Set top box, DVD, Blu-ray etc) video outputs to match the connections to the TV input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV.• Make sure your connected devices are powered on.• Be sure to select the TV's correct source by pressing the SOURCE button on the remote control.• Reboot the connected device by reconnecting the device's power cable.

Issues	Solutions and Explanations
RF(Cable/Antenna) Connection	
The TV is not receiving all channels.	<ul style="list-style-type: none">• Make sure the coaxial cable is connected securely.• Please try Plug & Play (Initial setup) to add available channels to the channel list. Go to MENU - System - Plug & Play (Initial setup) and wait for all available channels to be stored.• Verify the Antenna is positioned correctly.
No Caption on digital channels.	<p>Check Caption Setup menu. Some channels may not have caption data.</p>

Issues	Solutions and Explanations
<p>The picture is distorted: macro block, error, small block, dots, pixelization.</p>	<ul style="list-style-type: none"> • Compression of video contents may cause picture distortion. especially on fast moving pictures such as sports and action movies. • A low signal can cause picture distortion. This is not a TV problem.
<p>PC Connection</p>	
<p>A “Mode Not Supported” message appears.</p>	<ul style="list-style-type: none"> • Set your PC’s output resolution so it matches the resolutions supported by the TV.
<p>“PC” is always shown on the source list, even if a PC is not connected.</p>	<ul style="list-style-type: none"> • This is normal; “PC” is always shown on the source list, regardless of whether a PC is connected.

Issues	Solutions and Explanations
The video is OK but there is no audio.	<ul style="list-style-type: none">• If you are using a HDMI connection, check the audio output setting on your PC.
Others Purple/green rolling horizontal bars and buzzing noise from the TV speakers with Component cable connection.	<ul style="list-style-type: none">• Remove the left and right audio connections from the set-top-box. If the buzzing stops, this indicates that the set-top-box has a grounding issue. Replace the Component video cables with an HDMI connection.

Issues	Solutions and Explanations
The picture will not display in full screen.	<ul style="list-style-type: none">• HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents.• Black bars on Top & Bottom will be shown on movies that have aspect ratios different from your TV.• Adjust picture size option on your external device or TV to full screen.
The remote control does not work.	<ul style="list-style-type: none">• Replace the remote control batteries with correct polarity (+/-).• Clean the transmission window located on the top of the remote.• Try pointing the remote directly at the TV from 5~6 feet away.

Issues	Solutions and Explanations
The cable/set top box remote control does not turn the TV on or off, or adjust the volume.	<ul style="list-style-type: none"> Programme the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box user manual for SAMSUNG TV code.
<p>A “Mode Not Supported” message appears.</p>	<ul style="list-style-type: none"> Check the supported resolution of the TV and adjust the external device’s output resolution accordingly. Refer to resolution settings in this manual.
There is a plastic smell from the TV.	<ul style="list-style-type: none"> This smell is normal and will dissipate over time.

Issues	Solutions and Explanations
<p>TV Signal Information is unavailable in the Self Diagnosis Test menu.</p>	<ul style="list-style-type: none"> This function is only available with digital channels from an Antenna / RF / Coax connection.
<p>TV is tilted to the right or left side.</p>	<ul style="list-style-type: none"> Remove the stand base from the TV and reassemble it.
<p>The Channel menu is grey out (unavailable).</p>	<ul style="list-style-type: none"> The Channel menu is only available when the TV source is selected.



Issues	Solutions and Explanations
<p>Your settings are lost after 30 minutes or every time the TV is turned off.</p>	<ul style="list-style-type: none"> If TV is in the Store Demo mode, it will reset audio and picture settings every 30 minutes. Please change from Store Demo mode to Home Use mode in the Plug & Play(Initial setup) procedure. Press the SOURCE button to select TV mode, go to MENU → System → Plug & Play(Initial setup) → ENTER ↴.
<p>You have intermittent loss of audio or video.</p>	<ul style="list-style-type: none"> Check the cable connections and reconnect them. Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to the wall, we recommend using cables with 90 degree connectors.
<p>The PIP menu is not available.</p>	<ul style="list-style-type: none"> PIP functionality is only available when you are using a HDMI, PC or components source.

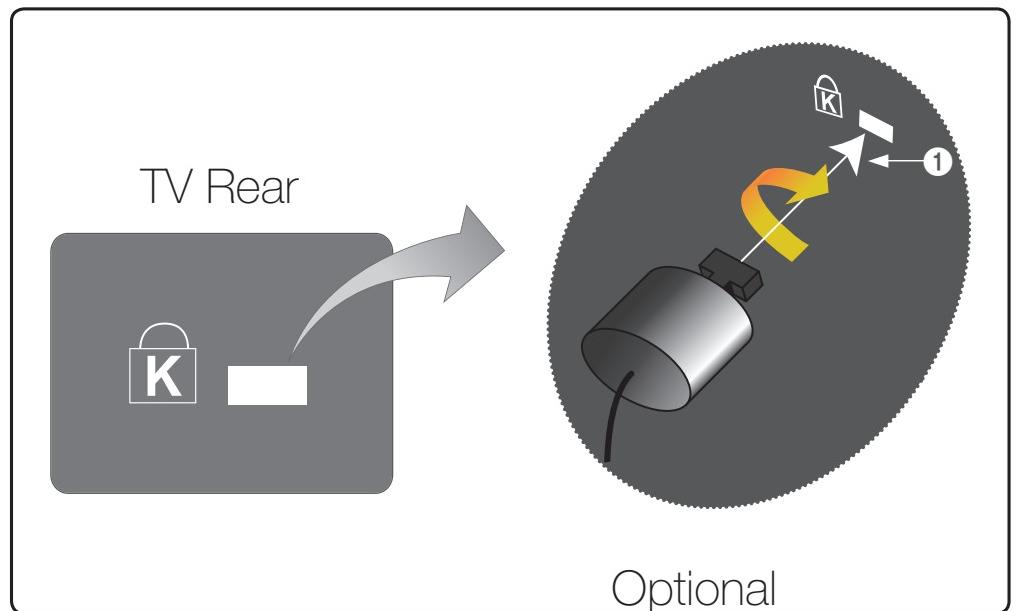
Issues	Solutions and Explanations
You see small particles when you look closely at the edge of the frame of the TV.	<ul style="list-style-type: none">This is part of the product's design and is not a defect.
POP (TV's internal banner ad) appears on the screen.	<ul style="list-style-type: none">Select Home Use under Plug & Play mode. For details, refer to Plug & Play (Initial Setup).



Anti-theft Kensington Lock

The Kensington Lock is not supplied by Samsung. It is a device used to physically fix the system when using it in a public place. The appearance and locking method may differ from the illustration depending on the manufacturer. Refer to the manual provided with the Kensington Lock for additional information on proper use.

-  Please find a “ The position and colour may differ depending on the model.



To lock the product, follow these steps:

1. Wrap the Kensington lock cable around a large, stationary object such as desk or chair.
2. Slide the end of the cable with the lock attached through the looped end of the Kensington lock cable.
3. Insert the locking device into the Kensington slot on the product **1**.
4. Lock the lock.



NOTE

- These are general instructions. For exact instructions, see the User manual supplied with the locking device.
- The locking device has to be purchased separately.
- The location of the Kensington slot may be different depending on the TV model.

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